VOLUME **74** 1993

Tubercle and Lung Disease

THE OFFICIAL JOURNAL OF THE INTERNATIONAL UNION AGAINST TUBERCULOSIS AND LUNG DISEASE

Churchill Livingstone

Copyright © Longman Group UK Ltd 1993
ISSN 0962–8479
All rights reserved. Apart from fair dealing for the purposes of research or private study, or criticism or review, as permitted under the Copyright, Designs and Patents Act, 1988, this publication may only be reproduced, stored or transmitted, in any form or by any means, with the prior written permission of the publishers (Churchill Livingstone, Robert Stevenson House, 1–3 Baxter's Place, Leith Walk, Edinburgh EH1 3AF) or in the case of reprographic reproduction in accordance with the terms of licences issued by the Copyright Licensing Agency Ltd, 90 Tottenham Court Road, London, W1P 9HE.

Printed and bound at BPCC-AUP Aberdeen Ltd, Aberdeen, UK

Tubercle and Lung Disease

Volume contents

LEADING ARTICLES

Acute respiratory infections: a high priority 1
The Working Group of ARI

Acute respiratory infections: conclusions of an IUATLD workshop 2
The Working Group of ARI

REVIEW ARTICLE

Corticosteriods and tuberculosis: risks and use of adjunct therapy 6
A. H. Alzeer, J. M. FitzGerald

ORIGINAL ARTICLES

Incidence of abdominal tuberculosis in Bangladeshi migrants in East London 12
C. D. Sheldon, C. S. J. Probert, H. Cock, K. King, D. S. Rampton, N. C. Barnes, J. F. Mayberry

Utilization of antituberculosis drugs expressed in defined daily doses in Klenovnik Hospital in the period between 1983 and 1987 16
Z. Trkanjec, J. Tekavec

Tuberculin reaction in pulmonary tuberculosis in the Asir Region of Saudi Arabia 20
B. Teklu, A. Al-Wabel

Bacteriological investigations for short-course chemotherapy under the tuberculosis programme in two districts of India 23
C. N. Paramasivan, V. Chandrasekaran, T. Santha, N. M. Sudarsanam, R. Prabhakar

Evaluation of the efficacy of health education on the compliance with antituberculosis chemoprophylaxis in school children. A randomized clinical trial 28
L. Salleras Sanmarti, J. Alcaide Megias, M. N. Altet Gomez, J. Canela Soler, E. Navas Alcala, M. R. Sune Puigbo, L. Serra Majem

Factors associated with compliance in treatment of tuberculosis 32
R. Menzies, I. Rocher, B. Vissandjee

BCG-induced protection in guinea pigs vaccinated and challenged via the respiratory route 38
M. Lagranderie, P. Ravisse, G. Marchal, M. Gheorghiu, V. Balasubramanian, E. H. Weigeshaus, D. W. Smith

Application of DNA fingerprinting with IS*986* to sequential mycobacterial isolates obtained from pulmonary tuberculosis patients in Hong Kong before, during and after short-course chemotherapy 46
S. Das, S. L. Chan, B. W. Allen, D. A. Mitchison, D. B. Lowrie

Validity of case-finding tools in a national tuberculosis programme 51
V. H. Balasangameshwara, A. K. Chakraborty

CASE REPORT

Congenital tuberculosis 59
A. L. Foo, K. K. Tan, O. M. Chay

TECHNICAL NOTE

Detection of nitrate reductase activity of mycobacteria: an evaluation of the use of a powdered reagent in the test, and rapid swab methods as compared to the conventional test 62
L. Ingham, S. M. Gubash

Correspondence 64

Notices 68

EDITORIAL

Agricultural hazards world-wide: a topical and multifarious issue 71
J. Chretien

REVIEW ARTICLE
Respiratory disorders in agriculture 74
J. E. Zejda, J. A. Dosman

ORIGINAL ARTICLES
Effect of pyrazinamide on rifampicin kinetics in patients with tuberculosis 87
A. Jain, V. L. Mehta, S. Kulshrestha

Identification of *Mycobacterium avium* complex strains belonging to serovars 21–28 by three commercial DNA probe tests 91
H. Tomioka, H. Saito, K. Sato, H. Tasaka, D. J. Dawson

DNA analysis demonstrates that mycococcus forms are not mycrobacteria 96
D. De Wit, D. A. Mitchison

Retrospective evaluation of the efficacy of the BCG vaccination campaign of newborns in Barcelona, Spain 100
M. N. Altet Gomez, J. Megias Alcaide, J. Canela Soler, L. Serra Majen, L. Salleras Sanmarti

La morbidité tuberculeuse de 1982 à 1990 en Algerie 106
R. Amrane, A. Djillalia, M. L'Hadj, Z. Ouartsi, A. Chakou

Predictors of AIDS in a cohort of HIV-infected patients with pulmonary or pleural tuberculosis 113
J. A. Caylà, J. M. Jansa, L. Artazcoz, A. Plasencia, Aids-TB Group

Increasing prevalence of tuberculosis among Mulago Hospital admissions, Kampala, Uganda (1985–1989) 121
M. Okot-Nwang, F. Wabwire-Mangen, V. B. A. Kagezi

Symptoms of pulmonary tuberculosis in consecutive smear-positive cases treated in Ethiopia 126
B. Teklu

Drug susceptibility in *Mycobacterium tuberculosis* of a sample of patients in Guinea Bissau 129
F. Dias, S. Ghebre Michael, S. E. Hoffner, L. Martins, R. Norberg, G. Kallenius

Haematological changes associated with miliary tuberculosis of the bone marrow 131
E. H. Lombard, E. P. G. Mansvelt

CLINICAL REPORT
Isoniazid induced encephalopathy in dialysis patients 136
W. C. Cheung, C. Y. Lo, W. K. Lo, M. Ip, I. K. P. Cheng

Correspondence 140

EDITORIALS
Building bridges 143
J.Chrétien

Drugs are not enough 145
S. Grzybowski

REVIEW ARTICLE
Imaging and lung disease: uses and interpretation 147
P. Legmann

ORIGINAL ARTICLES
The HIV epidemic and its effect on the tuberculosis situation in the Netherlands 159
H. Van Deutekom, A. A. Warris-Versteegen, P. Krijnen, C. A. Postema, J. K. Van Wijngaarden, J. A. R. Van Den Hoeck, R. A. Coutinho

Bacteriology and drug susceptibility of tuberculosis at St. Vincent's Hospital, Melbourne 1962–1991 163
J. H. Andrew, J. C. Hurley

Six years' experience with the discontinuation of BCG vaccination: 1. Risk of tuberculosis infection and disease 167
L. Trnka, D. Dankova, E. Svandova

Oral corticosteroids in patients with mild *Pneumocystis carinii* pneumonia and the Acquired Immune Deficiency Syndrome (AIDS) 173
J. S. G. Montaner, S. Guillemi, J. Quieffin, L. Lawson, T. Le, M. O'Shaughnessy, J. Ruedy, M. T. Schechter

Critical assessment of smear-positive pulmonary tuberculosis patients after chemotherapy under the district tuberculosis programme 180
M. Datta, M. P. Radhmani, R. Selvaraj, C. N. Paramasivan, B. N. Gopalan, C. R. Sudeendra, R. Prabhakar

The role of bacterial superinfection in extensive pulmonary tuberculosis: data from protected brush cultures in untreated patients 187
R. M. Middleton, M. B. Kirkpatrick, J. B. Bass

Negative sputum smear results in HIV-positive patients with pulmonary tuberculosis in Lusaka, Zambia 191
A. M. Elliott, K. Namaambo, B. W. Allen, L. Nkandu, R. J. Hayes, J. O. M. Pobee, K. P. W. J. McAdam

The use of monoclonal antibodies to identify mycobacteria grown in culture in Zimbabwe 195
P. R. Mason, L. Gwanzura, O. Lowe, A. H. J. Kock

Detection of antigens of *Mycobacterium tuberculosis* in patients of infertility by a monoclonalantibody-based sandwich ELISA 200
A. Rattan, S. K. Gupta, S. Singh, D. Takker, S. Kumar, P. Bai, R. Kukreja, M. Jaber

TECHNICAL NOTE
Comparison of restriction fragment length polymorphism of *Mycobacterium tuberculosis* isolated from cerebrospinal fluid and sputum 204
P. Palittapongarnpim

CASE REPORTS
Pancytopaenia associated with disseminated tuberculosis, reactive histiocytic haemophagocytic syndrome and tuberculous hypersplenism 208
K. M. Cassim, V. Gathiram, V. B. Jogessar

Dissemiated skeletal tuberculosis with skull involvement 211
M. Ip, E. Tsui, K. L. Wong, B. Jones, C. F. Fung, H. Ngan

Correspondence 215

ERRATA
Receipt and acceptance dates. *Tubercle and Lung Disease* 1992; 1 217

Tuberculosis infection in a rural population of south India: 23-year trend. *Tubercle and Lung Disease* 1992; 4: 213–218 218
A. K. Chakraborty et al

LEADING ARTICLES
The human dimension of tuberculosis control 219
J. M Grange, F. Festenstein

RFLP typing of the *Mycobacterium tuberculosis* bacilli 223
B. Gicquel

REVIEW ARTICLE
Diagnostic and therapeutic thoracoscopy: techniques and indications in pulmonary medicine 225
C. Boutin, R. Loddenkemper, P. Astoul

ORIGINAL ARTICLES
DNA fingerprints of *Mycobacterium tuberculosis* do not change during the development of rifampicin resistance 240
P. Godfrey-Faussett, N. G. Stoker, J. A. G. Scott, G. Pasvol, P. Kelly, L. Clancy

Tuberculosis in Canada: a focal disease requiring distinct control strategies for different risk groups 244
L. A. Gaudette, E. Ellis

Nationwide community survey of tuberculosis epidemiology in Saudi Arabia 254
F. A. Al-Kassimi, A. K. Abdullah, M. S. Al-Hajjaj, I. O. Al-Orainey, E. A. Bamgboye, M. N. H. Chowdhury

Intrathoracic paediatric tuberculosis: a report of 202 cases 261
P. R. Pineda, A. Leung, N. L. Muller, E. A. Allen, W. A. Black, J. M. FitzGerald

The impact of intensified supervisory activities on tuberculosis treatment 267
B. W. Jin, S. C. Kim, T. Mori, T. Shimao

The impact of HIV on resource utilization by patients with tuberculosis in a tertiary referral hospital, Nairobi, Kenya 273
P. Nunn, S. Gathua, D. Kibuga, R. Binge, R. Brindle, J. Odhiambo, K. McAdam

Current problems in treating tuberculosis in Italian HIV-infected patients 280
L. Monno, G. Angarano, S. Carbonara, G. Infante, S. Coppola, D. Costa, M. Quarto, G. Pastore

Six years' experience with the discontinuation of BCG vaccination 2. Cost and benefit of mass BCG vaccination 288
L. Trnka, D. Daňková, E. Svandová

EDITORIAL
Measuring tuberculosis: the role of the Tuberculosis Prevalence Survey as developed in Eastern countries 293
T. Shimao

REVIEW ARTICLE
Lung diseases in the tropics. Part 1: tropical granulomatous disorders of the lung: diagnosis and management 295
O. P. Sharma, A. Maheshwari

ORIGINAL ARTICLES
Superoxide dismutase activity of *Mycobacterium avium* complex (MAC) strains isolated from AIDS patients 305
R. G. Deshpande, M. B. Khan, L. S. Savariar, Y. Z. Windham, R. G. Navalkar

Turning intermittent regimens into daily regimens using blister-packs. An exploration in murine tuberculosis 310
A. Guy, J. M. Dickinson, D. A. Mitchison

Diagnosis of tuberculous meningitis by detection of immunoglobulin G antibodies to purified protein derivative and lipoarabinomannan antigen in cerebrospinal fluid 317
S. C. Park, B. I. Lee, S. N. Cho, W. J. Kim, B. C. Lee, S. M. Kim, J. D. Kim

The sixth Nationwide Tuberculosis Prevalence Survey in Korea, 1990 323
Y. P. Hong, S. J. Kim, D. W. Kwon, S. C. Chang, W. J. Lew, Y. C. Han

PLANNING AND PRACTICE
Private doctors and tuberculosis control in India 332
M. W. Uplekar, S. Rangan

TECHNICAL NOTES
Comparative study of a biphasic culture system (Roche MB Check system) with a conventional egg medium for recovery of mycobacteria 338
S. Ichiyama, K. Shimokata, J. Takeuchi, and the Aichi Mycobacteriosis Research Group

Polymerase chain reaction for the differentiation of *Mycobacterium intracellulare* and *Mycobacterium avium* 342
T. Yamamoto, T. Shibagaki, S. Yamori, H. Saito, H. Yamada, S. Ichiyama, K. Shimokata

Correspondence 346

LEADING ARTICLE
Technology transfer to the developing world: does new technology have any relevance for developing countries? 353
P. F. Basch

REVIEW ARTICLE
Lung diseases in the tropics. Part 2: Common tropical lung diseases: diagnosis and management 359
O. P. Sharma, A. Maheshwari

ORIGINAL ARTICLES
Sensitivity to sensitins and tuberculin in Swedish children. Part 5: a study of school children in an inland rural area 371
L. O. Larsson, M. W. Bentzon, A. Lind, M. Magnusson, G. Sandegård, B. -E. Skoogh, G. Boëthius

A case control study on human immunodeficiency virus-1 (HIV-1) infection as a risk factor for tuberculosis and leprosy in Western Kenya 377
P. A. Orege, P. E. M. Fine, S. B. Lucas, M. Obura, C. Okelo, P. Okuku, M. Were

Immunological evaluation of a 12-kilodalton protein of *Mycobacterium tuberculosis* by enzyme-linked immunosorbent assay 382
R. G. Deshpande, M. B. Khan, R. G. Navalkar

Superoxide dismutase activity of *Mycobacterium tuberculosis* isolated from tuberculosis patients and the immunoreactivity of superoxide dismutase from *M. tuberculosis* H37Rv 388
R. G. Deshpande, M. B. Khan, D. A. Bhat, R. G. Navalkar

Adrenocortical function and involvement in high risk cases of pulmonary tuberculosis 395
C. H. S. Chan, M. Arnold, T. W. L. Mak, R. C. Y. Chan, G. B. Hoheisel, C. C. Chow, C, Cockram

Tuberculosis of peripheral joints: a dilemma in diagnosis 399
M. E. Ellis, K. M. El-Ramahi, A. N. Al-Dalaan

TECHNICAL NOTE
Serodiagnosis of tuberculosis: assessment of kaolin agglutination test 405
R. M. Sarnaik, M. Sharma, S. K. Kate, S. K. Jindal

Correspondence 407

Forthcoming articles 416

Reviews for *Tubercle and Lung Disease* in 1993 417

Author index 418

Subject index 421